TEJUS

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand)	Proposed Use	coping concrete/PCC
Sample Location	At Plant/ At site	Date of Sampling	04.04.18
		Date of Testing	04.04.18

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	190	190	6.33	93.67	90 - 100
2.36 mm	380	570	19.00	81.00	75 - 100
1.18 mm	490	1060	35.33	64.67	55 - 90
0.600 mm	430	1490	49.67	50.33	35 -59
0.300 mm	676	2166	72.20	27.80	8-30
0.150 mm	564	2730	91.00	9.00	0 - 10
Pan	270	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

Consultant's Representative

AE Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

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Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	

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SPECIFIC GRAVITY AND WATER ABSORPTION

Type of Material	Sand	Proposed Use	coping concrete/PCC
Location/Source	At Plant/At site	Date of Sampling	04.04.18
Period of Soaking	24 hours	Date of Testing	04.04.18

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	Average
A	Weight of sturated surface dry sample gm.	659	649	670	
B	Weight of oven - dry sample gm.	643	638	664	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1687	1684	1696	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.603	2.658	2.667	2.643
G	Absorption (%) $\frac{(A-B)*100}{B}$	2.488	1.724	0.904	1.705

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Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S KRIDL

SIEVE ANALYSIS

Total Weight:	3000 gms			
Type of Material	Fine aggregate (River Sand)	Proposed Use	coping concrete/PCC	
Sample Location	At Plant/At site	Date of Sampling	04.04.18	
		Date of Testing	04.04.18	

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	187	187	6.23	93.77	90 - 100
2.36 mm	384	571	19.03	80.97	75 - 100
1.18 mm	489	1060	35.33	64.67	55 - 90
0.600 mm	426	1486	49.53	50.47	35 -59
0.300 mm	668	2154	71.80	28.20	8-30
0.150 mm	564	2718	90.60	9.40	0 - 10
Pan	282	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

Consultant's Representative

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Test Report on Compressive strength of Solid Block

Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S KRIDL
Cross sectional area	40000mm2
Size of cube	400mm x 100mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2
1	09.04.18	09.04.18	40000	249.00	6.23	6.28
2	09.04.18	09.04.18	40000	251.00	6.28	
3	09.04.18	09.04.18	40000	253.00	6.33	

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Test Report on Compressive strength of Solid Block

Project	Improvements to DWCC in Ward No. 08 and other SWM works in Kadugodi
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S KRIDL
Cross sectional area	60000mm2
Size of cube	400mm x 150mm x 200mm
No. of Block Tested	1
Reference IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2
1	09.04.18	09.04.18	60000	253.00	4.22	4.22
2	09.04.18	09.04.18	60000	252.00	4.20	
3	09.04.18	09.04.18	60000	255.00	4.25	

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PRECAST SLAB (CORE) TEST REPORT

Client	:	Bruhat Bangalore Mahanagara Palike
Contractor	:	M/S KRIDL
Name of Work	:	iImprovements to DWCC in Ward No. 08 and other SWM works in Kodigehallil
No.of Sample Tested	:	3
Date of Testing	:	09/05/18
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20} . 100mm thick

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.419	2510.53	1.70	0.960	39.60	20.17	21.78	20.91	26.14
2	50.00	85.00	0.402	2408.67	1.70	0.960	39.50	20.12	21.73	20.86	26.07
3	50.00	85.00	0.417	2498.55	1.70	0.960	39.60	20.17	21.78	20.91	26.14

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 15days from the date of testing.

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KERB STONE (CORE) TEST REPORT

ent	:	Bruhat Bangalore Mahanagara Palike
ntractor	:	M/S KRIDL
me of Work	:	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
of Sample Tested	:	3
e of Testing	:	09.05.18
hinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
de of Concrete	:	M_{15}

o.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.418	2504.54	1.70	0.960	30.50	15.53	16.78	16.11	20.13
2	50.00	85.00	0.409	2450.61	1.70	0.960	30.40	15.48	16.72	16.05	20.07
3	50.00	85.00	0.413	2474.58	1.70	0.960	30.60	15.58	16.83	16.16	20.20

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KERB STONE (CORE) TEST REPORT

ient	:	Bruhat Bangalore Mahanagara Palike
ntractor	:	M/S KRIDL
me of Work	:	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
. of Sample Tested	:	3
e of Testing	:	09.05.18
chinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
de of Concrete	:	M_{15}

No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.418	2504.54	1.70	0.960	31.25	15.92	17.19	16.50	20.63
2	50.00	85.00	0.427	2558.46	1.70	0.960	31.60	16.09	17.38	16.69	20.86
3	50.00	85.00	0.412	2468.59	1.70	0.960	31.50	16.04	17.33	16.63	20.79

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KERB STONE (CORE) TEST REPORT

lient	:	Bruhat Bangalore Mahanagara Palike
ontractor	:	M/S KRIDL
ame of Work	:	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
o.of Sample Tested	:	3
ate of Testing	:	09.05.18
echinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
rade of Concrete	:	M_{15}

No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.418	2504.54	1.70	0.960	31.45	16.02	17.30	16.61	20.76
2	50.00	85.00	0.425	2546.48	1.70	0.960	31.60	16.09	17.38	16.69	20.86
3	50.00	85.00	0.414	2480.57	1.70	0.960	31.42	16.00	17.28	16.59	20.74

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KERB STONE (CORE) TEST REPORT

ent	:	Bruhat Bangalore Mahanagara Palike
ntractor	:	M/S KRIDL
me of Work	:	Improvements to DWCC in Ward No. 08 and other SWM works in Kodigehalli
of Sample Tested	:	3
e of Testing	:	09.05.18
hinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
de of Concrete	:	M_{15}

No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.407	2438.63	1.70	0.960	30.30	15.43	16.67	16.00	20.00
2	50.00	85.00	0.406	2432.64	1.70	0.960	30.40	15.48	16.72	16.05	20.07
3	50.00	85.00	0.415	2486.56	1.70	0.960	30.00	15.28	16.50	15.84	19.80

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